



QUEENS' SCHOOL
Dare to be Computer literate!



Computer science dept. NEWS

Key Stage 3

Year 7. We continue with the introduction of the new Scheme of Work for Year 7s, which is largely based on the NCCE's (National Centre for Computing Education) scheme. In the first Spring half-term we covered 'Computing Networks and Protocols', and will move onto 'Clear Messaging' in the second half-term.

The screenshot shows an Excel spreadsheet with a multiplication table. The columns are labeled A through T, and the rows are labeled 1 through 13. The table contains the following data:

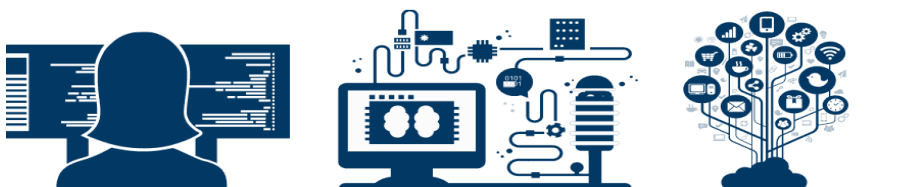
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	Times Table	1	2	3	4	5	6	7	8	9	10	11	12							
2	1	1	2	3	4	5	6	7	8	9	10	11	12							
3	2	2	4	6	8	10	12	14	16	18	20	22	24							
4	3	3	6	9	12	15	18	21	24	27	30	33	36							
5	4	4	8	12	16	20	24	28	32	36	40	44	48							
6	5	5	10	15	20	25	30	35	40	45	50	55	60							
7	6	6	12	18	24	30	36	42	48	54	60	66	72							
8	7	7	14	21	28	35	42	49	56	63	70	77	84							
9	8	8	16	24	32	40	48	56	64	72	80	88	96							
10	9	9	18	27	36	45	54	63	72	81	90	99	108							
11	10	10	20	30	40	50	60	70	80	90	100	110	120							
12	11	11	22	33	44	55	66	77	88	99	110	121	132							
13	12	12	24	36	48	60	72	84	96	108	120	132	144							

Year 8 have been learning to use Excel spreadsheets, including formatting, functions and formulas, sorting and filtering, making graphs, and absolute referencing. Next term Year 8 will be 'Creating a website'.

Year 9 students have been introduced to the Python language. They have covered most of the fundamentals and next half-term will be moving onto developing their skills through a series of incrementally harder practice tasks.

Key Stage 4

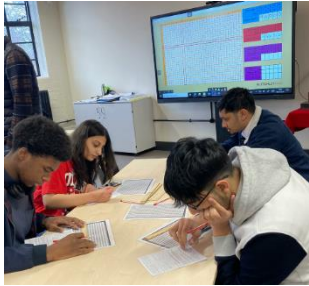
Year 10s have just finished 'Algorithms'. This is the first topic from Paper 2 – 'Computational thinking, algorithms and programming'. In the second Spring half-term we move onto 'Programming', where we continue with the Python language, which students first used in Year 9.



Year 11s are currently studying 'Ethical, legal, cultural and environmental impacts of digital technology'. After this, they will start a programme of revision leading up to their GCSE.

Key Stage 5

Year 12 students started 2024 with an exciting visit to Bletchley Park, regarded as one of the birth places of Computer Science. Bletchley was where Alan Turing and a team of code breakers worked to break the World War II German naval Enigma code.



(from left to right: Wilson, Druva, Kyle, and ?)



Year 13 have now finished their formal Scheme of Work and are focusing on completing their NEA Project, the **final deadline for which is the 22nd March**. In other lessons the students are following a programme of revision, doing lots of practice of A-level exam-style questions.

